

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,422	01/22/2004	Keith Bryden Fitzsimons	P08157US00/MP	1424
881	7590 10/20/2005		EXAMINER	
STITES & HARBISON PLLC			DINH, TIEN QUANG	
1199 NORTH FAIRFAX STREET SUITE 900 ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3644	

DATE MAILED: 10/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/761,422	FITZSIMONS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tien Dinh	3644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/2004, 7/2004	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/761,422

Art Unit: 3644

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The examiner does not understand what between 3 and 12 degrees and preferably in the order of 6 degree mean. Furthermore are the raised regions spaced about 3 to 12 degrees from each other? Please explain.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tonneriux in view of Ashfield et al or Wallace et al.

Tonneriux discloses an annular spacer having raised portions on the first and second planar faces. The raised portions of the first face are offset with the raised portions of the second face. Tonneriux is silent on the raised regions being melded with the planar faces with out any sharp discontinuity. However, Ashfield et al or Wallace et al discloses that spacers having raised

Art Unit: 3644

regions being melded with the planar faces with out any sharp discontinuity are well known in the art.

It would have been obvious to one skilled in the art to have made the raised regions of Tonneriux being melded with the planar faces with out any sharp discontinuity as taught by Ashfield et al or Wallace et al to allow the spacer to work efficiently.

Re claim 8, please note that it would have been obvious to one skilled in the art to have made the raised region extend between 2% to 5% so that the spacer accommodate the parts that will interact with it.

Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rampal in view of Tonneriux, Ashfield et al or Wallace et al.

Rampal disclose a helicopter rotor system having rotor head and gearbox but silent on the annualar spacer with raised regions being melded with the planar faces with out any sharp discontinuity. However, Tonneriux discloses an annular spacer having raised portions on the first and second planar faces are well known. The raised portions of the first face are offset with the raised portions of the second face. Ashfield et al or Wallace et al discloses that spacers having raised regions being melded with the planar faces with out any sharp discontinuity are also well known in the art.

It would have been obvious to one skilled in the art to have used annular spacers having raised regions being melded with the planar faces with out any sharp discontinuity in Rampal'system as taught by Tonneriux, Ashfield et al or Wallace et al to allow the spacer to work efficiently.

Art Unit: 3644

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pleva discloses spacers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tien Dinh whose telephone number is 571-272-6899. The examiner can normally be reached on 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 571-272-7045. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TD

Tim 51